MILITARY SPECIFICATION SHEET

ELECTRON TUBE, POWER

TYPE 805

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The complete requirements for procuring the electron tube described herein shall consist of this document and the latest issue of Specification MIL-E-1.

DESCRIPTION: Triode

See figure 1

Mounting position: Vertical with base down, or in horizontal position with pins 1 and 3 in vertical plane.

Weight: 8 ounces (226.8 grams) nominal

ABSOLUTE RATINGS: C Telegraphy

Parameter: Unit: Haximum: Minimum:	F MHz 30	Ef V 10.5 9.5	Eb Vdc 1,500	Ec Vdc -500	Ib mAdc 210	Ic mAdc 70	Pp W 125	Pi W 315
TEST CONDITIONS:		10.0 Vdc	1,500					

GENERAL:

Qualification - Required

denotes changes

805

FSC 5960

MIL-E-1/9210

METHOD	REQUIREMENT OR TEST	NOTES	CONDITIONS	AQL (PERCENT DEFECTIVE)	INSPECTION LEVEL OR CODE	SYMBOL	LIMITS		
							MIN	MAX	UNIT
	Quality conformance inspection, part 1								
1201	Short and discontinuity detection	=		0.4	11				
1301	Filament current	-		0.65	111	If	3.1	3.4	Adc
1256	Electrode current (1) (anode)	-	Ec = 0	0.65	11	Ib	60	90	mAdc
1236	Power oscillation (1)	-	Rg = 5,000 ohms; Ic = 45 to 70 mAdc; Ib = 210 mAdc; F = 15 MHz	0.65	11	Po	185		W (usefu
1231	Emission by oscillation	-	Power oscillation (1)	0.65	11	Ef		9.0	Vdc
1266	Total grid current	1	Eb = 2,000 Vdc; Ec/Ib = 78 mAdc; t = 120 seconds	0.65	11	Ic	0	-10.0	μAdc
	Quality conformance inspection part 2								
1031	Low-frequency vibration	-	Eb = 250 Vdc; Ec/lb = 15 mAdc; Rp = 2,000 ohms			Ер		500	mVac
1256	Electrode current (posi- tive grid)	-	Eb = 200 Vdc; Ec = 100 Vdc			Ic	80	130	mAdic
1256	Electrode current (2) (anode)	-	Eb = 200 Vdc; Ec = 100 Vdc			Ib	400	550	mAdic
1236	Internal insulation	-							
1331	Direct-interelectrode capacitance	-		}		Cgp Cin Cout	5.1 6.2 6.5	7.3 9.0 11.7	pF pF pF
	Quality conformance inspection, part 3							,	pr.
	Life test	i	Group C; Pp = 125 W; Eb = 1,500 Vdc (max); t = 500 hours						
	Life-test end point:	ļ				ļ	Ì		
1231	Emission by oscillation	-				Ef		9.5	Vdc
1236	Power oscillation (2)		Rg = 5,000 ohms; Ic = 45 to 70 mAdc; Ib = 210 mAdc; F = 30 MHz			Po	170		W (useful

NOTES:

- 1. This test to be performed at the conclusion of the holding period.
- C 2. This test shall be performed during the initial production and once each succeeding 12-calendar months in which there is production. A regular double sampling plan shall be used, with the first sample of three tubes with an acceptance number of one. In the event of failure, the test will be made as a part of quality conformance inspection, part 2, code level D, with an AQL of 6.5. The regular "12-calendar month" double sampling plan shall be reinstated after three consecutive samples have been accepted.

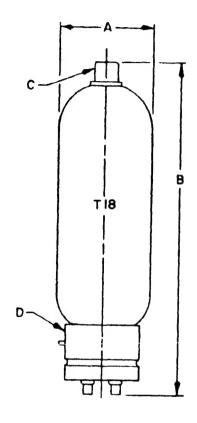
MIL-E-1/921C

Custodians:
Army - EL
Navy - EC
Air Force - 85

Review activities:
Air Force - 17, 80
DSA - ES

User activities:
Army - MU
Navy - AS, OS, MC, CG, SH
Air Force - 11

Preparing activity: Navy - EC Agent: DSA - ES (Project 5960-2991)



	Ltr	Dimensions in inches with metric equivalents (mm) in parentheses					
		Minimum	Maximum				
	Quality conformance inspection, part 1						
	A		2.312 (58.72)				
	В	7.594 (192.89)	8.500 (215.90)				
0	Quality conformance inspection, part 3 (see note a)						
(C)	С	Cap: C1-5 (EIA)					
	D		IA) (see note b)				

PIN CONNECTIONS				
Pin No.	Element			
1	9			
2	f			
3	nc			
4	f			
Сар	٥			

NOTES:

- a. Dimensions shall be checked during the initial production and once each succeeding 12-calendar months in which there is production. A regular double sampling plan shall be used, with the first sample of three tubes with an acceptance number of zero, and a second sample of three tubes with a combined acceptance number of one. In the event of failure, the test will be made as a part of quality conformance inspection, part 2, code level D, with an AQL of 6.5. The regular "12-calendar month" double sampling plan shall be reinstated after three consecutive samples have been accepted.
- © b. Dimension (a) for base A4-29 as shown in RS209A, section 2, sheet 26, shall be 45°±1°.

FIGURE 1. Outline drawing of electron tube type 805.

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NAVAL ELECTRONIC SYSTEMS COMMAND
WASHINGTON, D. C. 20360

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SPECIFICATION ANALYSIS SH	Form Approved Budget Bureau No. 22-R255				
INSTRUCTIONS: This sheet is to be filled out by personnel, either Government or contractor, involved in the use of the specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, staple in corner, and send to preparing activity. Comments and suggestions submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or serve to amend contractual requirements.					
SPECIFICATION					
ORG ANIZATION					
CITY AND STATE	CONTRACT NUMBER				
	ONTRACT				
1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCURE- MENT USE? A. GIVE PARAGRAPH NUMBER AND WORDING.					
B. RECOMMENDATIONS FOR CORRECTING THE DEFIC	TIENCIES				
2. COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID					
3. IS THE SPECIFICATION RESTRICTIVE?					
TES NO (II "yes", in what way?)					
4. REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity)					
SUBMITTED BY (Printed or typed name and activity - Optiona	1)	DATE			

DD . FORM. 1426